

Category	Institution	Program Name	Contact	Program Type	Description	Notes & Websites
<b>Buildings and Construction</b>						
<b>-Energy Efficiency</b>	Northwestern Michigan College	Construction Technology	Extended Educational Services NW MI University 1701 E. Front St. Traverse City, MI 49686 ees@nmc.edu Phone:(231)995-1700 Toll-Free:(800)748-0566x1700	non-credit	A state of the art building science lab allows students a hands-on, systems approach to construction trades. The program contains units in HVACR, Electrical, Plumbing, Carpentry, Masonry and Renewable Energy Technologies.	<a href="http://www.nmc.edu/ees/">http://www.nmc.edu/ees/</a>
	Oakland Community College	Heating Ventilation Air Conditioning and Refrigeration	Bee Administration Center Oakland College 2480 Opdyke Road Bloomfield Hills, MI 48304 rcwilson@oaklandcc.edu Phone:(248)232-4109	Extended Degree Program Associates in Applied Science specialization in Environmental Systems Technology, Certificate Programs	This program emphasizes a full energy systems approach to Heating Ventilation Air Conditioning and Refrigeration diagnosis, maintenance and repair.	The Extended Degree Program is designed to complement a 2 or 4 year program in either Engineering Technology or Energy Management. <a href="http://www.oaklandcc.edu/EST/ProgramOptions.htm">http://www.oaklandcc.edu/EST/ProgramOptions.htm</a>
<b>-Skills Training</b>	Ferris State University	Heating Ventilation Air Conditioning and Refrigeration	HVACR Department Ferris State University 1201 S. State Street, CSS 201 Big Rapids, MI 49307 feutzm@ferris.edu Phone:(231)591-2890	Bachelors of Science, Associates in Applied Science	Energy Analysis and System Design are keys to this HVACR program. Ferris offers a large and modern laboratory. The B.S. is one of only 2 in the country.	Online degree is also available for this program.
	Henry Ford Community College	Energy Technology	Trade & Apprenticeship Education Division Henry Ford Community College Technology Bldg. Room T-115 5101 Evergreen Road Dearborn, MI 48128-1495 Phone:(313)845-9609	Heating and Cooling Advanced Certificate	Energy management and system design approach to residential and light commercial heating and cooling technologies with hands-on experiences.	<a href="http://www.hfcc.edu/programs/trade_and_apprentice.asp">http://www.hfcc.edu/programs/trade_and_apprentice.asp</a>
	Mott Community College	Air Conditioning Heating and Refrigeration	Mott Community College 1401 East Court St. Flint, MI 48503 Phone:(810)232-7418	Associates, Certificate	Emphasis on high efficiency equipment and environmentally safe refrigerants.	
<b>-Architecture</b>	Lawrence Tech	Architecture	College of Architecture & Design Lawrence Technological Univ. 21000 West Ten Mile Rd Southfield, MI 48075-1058 Phone:(248)204-2850	Sustainable Architecture Certificate, Bachelors of Science in Architecture, Masters of Architecture	The Sustainable Architecture certificate emphasizes renewable resources, natural systems, and alternative energy in environmentally responsive design practice. Students have presented at Zero-Energy Homes competitions and the Solar Decathlon	<a href="http://www.ltu.edu/architecture_and_design/architecture/certificate_program.asp">http://www.ltu.edu/architecture_and_design/architecture/certificate_program.asp</a>
	Michigan State University	Environmental Design	Environmental Design 101 UPLA Building Michigan State University East Lansing, Michigan 48824 Phone:(517)353-7880 burlevj@msu.edu	Masters in Environmental Design	Students focus on a specialized area of planning, design, and management of the environment.	
	University of Detroit Mercy	Architecture	Univ. of Detroit Mercy School of Architecture 4001 W. McNichols Rd. Detroit, MI 48821 Phone:(313)993-1532	Bachelors and Masters degrees in Architecture	Energy, environmental technology, and sustainable design are integrated into the architecture curriculum. Students can also participate in the Detroit Collaborative Design Center.	

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-Facilities Management	Ferris State University	Facilities Management	Facility Management Dept Ferris State University 915 Campus Drive SWAN 312 Big Rapids, MI 49307 Phone:(231)591-3100	Bachelors of Science, Certificate, and Minor	Building Diagnostics & Operations, Environmental Biology, and HVACR courses are a part of this program	
	Oakland Community College	Facilities Management	Bee Administration Center Oakland College 2480 Opdyke Road Bloomfield Hills, MI 48304 dgrove@oaklandcc.edu Phone:(248)246-2553	Associates in Applied Science with a specialization in Environmental Systems Technology	Facilities Management with focus on building's energy use and envelope.	<a href="http://www.oaklandcc.edu/EST/ProgramOptions.htm">http://www.oaklandcc.edu/EST/ProgramOptions.htm</a>
-Urban Planning	Eastern Michigan University	Urban Planning	Eastern Michigan University Dep't of Geography and Geology 205 Strong Hall Ypsilanti, MI 48197 Phone:(734)487-8656	Bachelors and Masters degrees	The program focuses on the built environment and geospatial inquiry using Geographic Information Systems (GIS).	<a href="http://www.emich.edu/public/geo/plng.frameset.html">http://www.emich.edu/public/geo/plng.frameset.html</a>
	Michigan State University	Urban & Regional Planning Program w/ Environment Cognate	The Urban and Regional Planning Program 101 UPLA Building Michigan State University East Lansing, Michigan 48824 Phone:(517)353-9054 urp@msu.edu	Bachelors of Science, Masters in Urban & Regional Planning	This program integrates sustainable development and societal issues with a focus on Michigan issues.	The School of Planning, Design & Construction <a href="http://www.spdc.msu.edu/">http://www.spdc.msu.edu/</a>

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<b>Automotive Industries</b>						
<b>-Technology &amp; Application</b>       <b>-Engineering</b>	Oakland University	Alternative Energy Training	646 Science & Engineering Building Oakland University Rochester, MI 48309 Phone:(248)370-4946 ring2@oakland.edu	Certificate	This program focuses on three areas of automotive technology: Electric Vehicle Systems, Fuel Cell & Biofuels, and Hybrid Electric Vehicles.	This Curriculum was developed in partnership with NextEnergy: <a href="http://www.nextenergy.org/education/curriculum_development.asp">http://www.nextenergy.org/education/curriculum_development.asp</a> <a href="http://www.oakland.edu/pdmc/alternate_energy_training.html">http://www.oakland.edu/pdmc/alternate_energy_training.html</a>
	Kettering University	Mechanical Engineering	Kettering University Mechanical Engineering 1700 W. Third Ave. Flint, MI 48504 Phone:(810)762-7833	Bachelors in Mechanical Engineering	Students in this degree program have the opportunity to focus on automotive engineering trends such as hybrid vehicles, alternative fuels, and electric vehicles.	This Curriculum was developed in partnership with NextEnergy: <a href="http://www.nextenergy.org/education/curriculum_development.asp">http://www.nextenergy.org/education/curriculum_development.asp</a> <a href="http://kettering.edu/programs/program_home_T2_R2.jsp">http://kettering.edu/programs/program_home_T2_R2.jsp</a>
		Minor in Fuel Cells	blemke@kettering.edu jberry@kettering.edu	Minor available to Mechanical, Electrical, Physics, & Environmental Chemistry students	This interdisciplinary option brings together chemistry, engineering, and business to teach students the specifics of fuel cell technology.	<a href="http://www.kettering.edu/mech_eng/mecheng_T0_R918.html">http://www.kettering.edu/mech_eng/mecheng_T0_R918.html</a>
	Lawrence Tech	Mechanical Engineering	Mechanical Engineering Dept Lawrence Technological Univ. 21000 West Ten Mile Road Southfield, MI 48075-1058 Phone:(248)204-2525	Bachelors in Mechanical Engineering w/ Minor in Alternative Energy	The Automotive Engineering subfield, students can explore technological issues of hybrid and fuel cell vehicles.	This Curriculum was developed in partnership with NextEnergy: <a href="http://www.nextenergy.org/education/curriculum_development.asp">http://www.nextenergy.org/education/curriculum_development.asp</a> Lawrence Tech's Automotive Engineering Institute: <a href="http://www.ltu.edu/engineering/dynamometer.asp">http://www.ltu.edu/engineering/dynamometer.asp</a>
	University of Michigan	Mechanical Engineering w/ Concentration in Environmental Sustainability: "ConsEnSus"	Department of Mechanical Engineering The University of Michigan 2250 G.G. Brown 2350 Hayward Ann Arbor, MI 48109-2125 Phone:(734)764-2694	Bachelors of Science in Engineering, Masters of Science in Engineering	The program has research focuses in energy conservation, fuel economy, and vehicle emissions along with many more. The ConsEnSus program provides engineering students the opportunity to study advanced issues related to environmental sustainability.	This Curriculum was developed in partnership with NextEnergy: <a href="http://www.nextenergy.org/education/curriculum_development.asp">http://www.nextenergy.org/education/curriculum_development.asp</a> <a href="http://www.engin.umich.edu/prog/consensus/">http://www.engin.umich.edu/prog/consensus/</a>
		Chemical Engineering w/ Concentration in Environmental Sustainability: "ConsEnSus"	Department of Chemical Engineering The University of Michigan 2300 Hayward St. 3074 H.H. Dow Building Ann Arbor, MI 48109-2136 Phone:(734)764-2383	Bachelors of Science in Engineering, Masters of Science in Engineering	This program allows students to tailor their electives to focus on environmental issues. ConsEnSus provides engineering students the opportunity to study advanced issues related to environmental sustainability.	<a href="http://www.engin.umich.edu/prog/consensus/">http://www.engin.umich.edu/prog/consensus/</a>
		InterPro Automotive Engineering w/ Energy & Systems Area	University of Michigan College of Engineering Graduate Professional Programs 273 Chrysler Center Ann Arbor, MI 48109-2092 Phone:(734)763-0480	Five year Grad/Undergrad Degree	Students in this interdisciplinary engineering program can focus on many technological aspects of the automotive industry. Sustainable manufacturing and "ecodesign" are suggested electives.	<a href="http://interpro.engin.umich.edu/auto/prospective_students/auto_degree.htm">http://interpro.engin.umich.edu/auto/prospective_students/auto_degree.htm</a>
	Wayne State University	Alternative Energy Technology	Alternative Energy Technology (AET) Program College of Engineering Wayne State University Detroit, MI 48202 Phone:(313)577-3805 aet@wayne.edu	Undergraduate AET concentration (in conjunction with a B.S. in Engineering), Masters of Science, and Graduate Certificate	Students will obtain the knowledge and skills needed for alternative energy projects. The program focuses on the fundamental engineering and economics of fuel cells, photovoltaics, solar energy, wind energy, and biomass conversion	Future students will have access to the National Biofuel Energy Laboratory in Detroit. This Curriculum was developed in partnership with NextEnergy: <a href="http://www.nextenergy.org/education/curriculum_development.asp">http://www.nextenergy.org/education/curriculum_development.asp</a>

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<b>Renewable Energy</b>						
	<b>-Technology &amp; Application</b>					
	Lansing Community College	Alternative Energy Engineering	4100W-Manufacturing Engineering Technologies Dept Lansing Community College PO Box 40010 Lansing, MI 48901-7210 Phone:(517)483-5262 aparker@lansing.cc.mi.us	Associates in Applied Science and Certificates (technology and specialist)	This program emphasizes hands-on training with fuel cells and other renewable energy technologies.	This Curriculum was developed in partnership with NextEnergy: <a href="http://www.nextenergy.org/education/curriculum_development.asp">http://www.nextenergy.org/education/curriculum_development.asp</a> <a href="http://www.lcc.edu/manufacturing/alternative_energy/">http://www.lcc.edu/manufacturing/alternative_energy/</a>
	Muskegon Community College	Alternative and Renewable Energy	Industrial Manufacturing Technologies Dep't MCC 221 S. Quarterline Road Muskegon, MI 49442 Phone:(231)773-9131	Certificate	This program provides students with real-world, practical perspectives on alternative energy technologies. The Michigan Alternative and Renewable Energy Center (MAREC) is used to study biodiesel, solar, and wind energy.	MAREC is a Gold Certified LEED facility: <a href="http://www.gvsu.edu/marec/">http://www.gvsu.edu/marec/</a> <a href="http://www.muskegoncc.edu/pages/734.asp#alt">http://www.muskegoncc.edu/pages/734.asp#alt</a>
<b>-Engineering</b>	Oakland Community College	Environmental Systems Technology Program	Bee Administration Center Oakland College 2480 Opdyke Road Bloomfield Hills, MI 48304 dgrove@oaklandcc.edu Phone:(248)246-2553	Associates in Applied Science with a specialization in Environmental Systems Technology	Students can choose to focus on energy management, environmental technologies, or energy engineering.	<a href="http://www.oaklandcc.edu/EST/ProgramOptions.htm">http://www.oaklandcc.edu/EST/ProgramOptions.htm</a>
	St. Clair Community College	Alternative Energy Technology	St. Clair Community College 323 Erie St. P.O. Box 5015 Port Huron MI 48061-5015 Phone:(810)989-5823 Toll-Free:(800)553-2427 csebastian@sc4.edu	Certificate	Students develop a working knowledge of alternative energy power generation and delivery systems.	<a href="http://www.sc4.edu">http://www.sc4.edu</a>
	Lawrence Tech	Alternative Energy Technician	LTU Alternative Energy program Mechanical Engineering Dep't Lawrence Technological Univ. 21000 West Ten Mile Road Southfield, MI 48075-1058 Phone:(248)204-2525 rfletcher@LTU.edu	Associates in Applied Science	Elements of electrical, mechanical, and industrial engineering combine in Alternative Energy Technical training. Program examines storage, safety, regulation, and environmental impacts.	This Curriculum was developed in partnership with NextEnergy: <a href="http://www.nextenergy.org/education/curriculum_development.asp">http://www.nextenergy.org/education/curriculum_development.asp</a> <a href="http://www.ltu.edu/engineering/mechanical/alt_energy.asp">http://www.ltu.edu/engineering/mechanical/alt_energy.asp</a>
		Energy and Environmental Management (see above)		Certificate	Students will examine energy systems, technologies, and economies.	This program is a single course and a terminating exam. <a href="http://www.ltu.edu/engineering/energyprograms_course.asp">http://www.ltu.edu/engineering/energyprograms_course.asp</a>
<b>-Engineering</b>	Michigan Tech	Environmental Engineering w/ International Sustainable Engineering Initiative	MTU College of Engineering Dep't of Civil and Environmental Engineering 1400 Townsend Drive Houghton, MI. 49931-1295 Phone:(906)487-2520 cee@mtu.edu	Bachelors, Masters of Science, Masters of Engineering, Ph.D., Peace Corps Masters International	The International Senior Design Project offers a platform to consider economic and health factors, societal issues, constructability and sustainability, safety, reliability, aesthetics, ethics, and environmental limitations.	Michigan Tech is home to the Sustainable Futures Institute: <a href="http://www.sfi.mtu.edu/">http://www.sfi.mtu.edu/</a> and Sustainable Solutions Enterprise: <a href="http://www.enterprise.mtu.edu/sse/">http://www.enterprise.mtu.edu/sse/</a>
	University of Michigan	Civil & Environmental Engineering w/ Concentration in Environmental Sustainability: "ConsEnSus"	Department of Civil & Environmental Engineering 2350 Hayward 2340 G.G. Brown Building Ann Arbor, MI 48109-2125 Phone:(734)764-8495	Bachelors of Science in Engineering, Masters of Science in Engineering, Ph.D	This program has an emphasis on creating sustainable civil infrastructure and ensuring environmental quality. ConsEnSus provides engineering students the opportunity to study advanced issues related to environmental sustainability.	<a href="http://www.engin.umich.edu/prog/consensus/">http://www.engin.umich.edu/prog/consensus/</a>

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<b>Business &amp; Development</b>						
<div>-Business</div> <div>-Land Development</div>	Aquinas College	Sustainable Business	Aquinas College Sustainable Business Dep't 1607 Robinson Road S.E. Grand Rapids, MI 49506-1799 Phone:(616)632-2191 tuethmat@aquinas.edu	Bachelors (major and minor), Masters, and certificate	Students focus on business practices that restore environmental quality, promote stable and healthy communities, and increase long-term profitability	<a href="http://www.aquinas.edu/sb/">http://www.aquinas.edu/sb/</a>
	Northwestern Michigan College	Real Estate for Energy Efficiency	Extended Educational Services NW MI University 1701 E. Front St. Traverse City, MI 49686 ees@nmc.edu Phone:(231)995-1700 Toll-Free:(800)748-0566x1700	non-credit	Marketing for high performance, energy efficient homes course work.	<a href="http://www.nmc.edu/ees/">http://www.nmc.edu/ees/</a>
	University of Michigan	Real Estate	Real Estate Certificate Admissions TCAUP The University of Michigan 2000 Bonisteel Boulevard Ann Arbor, MI 48109-2069 Phone:(734)763-3075 realestate@umich.edu	Graduate, or Post-Graduate Certificate	Students focus on development and redevelopment of economically, environmentally, and socially sustainable places.	<a href="http://www.tcaup.umich.edu/realestate/index.html">http://www.tcaup.umich.edu/realestate/index.html</a>